Location Date/Time Deaths & Property & Event Type and Details
Injuries Crop Dmg

#### **ILLINOIS**, South

(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC

08/01/12 00:00 CST 0 Drought

08/31/12 23:59 CST 0

The drought which began in May reached its most extreme stage by early August. Through the month of August, all of southern Illinois was in extreme to exceptional drought. The exceptional drought conditions were south of a line from Mount Carmel to Murphysboro. The remainder of southern Illinois was in extreme drought conditions. Soil moisture deficits remained very high. Throughout August, 80 to 100 percent of the region's topsoil and subsoil moisture was reported as short or very short. Many crops were heavily damaged, and numerous counties were declared natural disaster areas. Corn crops were a partial or complete loss. Soybeans were faring somewhat better. The percentage of pastures rated as poor or very poor held steady from July. Some small trees and shrubs were killed. Ponds across the region were dry or drying quickly. Even with the isolated rainfall from thunderstorms, fire danger remained high. Bans on outdoor burning were in place for numerous counties in southern Illinois. Streamflows were running normal to below normal. At the Carbondale airport, 6.24 inches of rain fell in August, which was over 3 inches above normal. However, two inches of this rain fell on the last day of the month, which was too late to impact August drought conditions. The drought began in May and continued into September.

JOHNSON COUNTY --- 1.1 E HOLLINS SPUR [37.40, -88.96]

08/01/12 15:40 CST 2K Thunderstorm Wind (EG 52 kt)

08/01/12 15:40 CST 0 Source: State Official

Tree limbs were blown down near the Cache River State Natural Area.

UNION COUNTY --- 2.0 E DONGOLA [37.37, -89.13]

08/01/12 16:30 CST 40K Thunderstorm Wind (EG 52 kt)

08/01/12 16:30 CST 0 Source: Law Enforcement

Trees and power lines were blown down. A couple of homes were damaged.

Isolated thunderstorms developed during the heat of the afternoon. The storms increased along a residual front or wind shift that settled into the very unstable air mass across the region. A couple of multicellular storms produced severe downburst winds.

JACKSON COUNTY --- MURPHYSBORO [37.77, -89.33], CARBONDALE [37.72, -89.22]

Over two inches of rain fell in about an hour. Some minor flooding of roads was reported.

Thunderstorms with torrential rain occurred ahead of a cold front that extended from the Great Lakes region across the St. Louis area to the Ozark Mountains.

JACKSON COUNTY --- GORHAM [37.72, -89.48]

08/16/12 14:30 CST 0 Hail (2.50 in)

08/16/12 14:30 CST 0 Source: Emergency Manager

Hail was just slightly smaller than baseballs.

An isolated severe thunderstorm developed in the heat of the afternoon. The storm formed ahead of a weak cold front that extended from central Illinois southwest across Missouri.

#### INDIANA, Southwest

(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER

08/01/12 00:00 CST 0 Drought

08/31/12 23:59 CST 0

The drought which began in May reached its most extreme stage by early August, then improved slightly. At the end of August, most of southwest Indiana was in extreme drought. Exceptional drought conditions were limited to the Lower Wabash Valley counties of Gibson and Posey. Soil moisture deficits remained very high. Throughout August, 70 to 90 percent of the region's topsoil and subsoil moisture

Page 1 of 6 Printed on: 10/21/2012

Location Date/Time Deaths & **Event Type and Details** Property & Injuries Crop Dmg was reported as short or very short. Many crops were heavily damaged, and numerous counties were declared natural disaster areas. Corn crops were a partial or complete loss. Soybeans were faring somewhat better. The percentage of pastures rated as poor or very poor held steady from July. Ponds across the region were dry or drying quickly. Even with the isolated rainfall from thunderstorms, fire danger remained high. Bans on outdoor burning were in place for numerous counties. Streamflows were running normal to below normal. At the Evansville airport, 4.10 inches of rain fell in August, which was over one inch above normal. For the year to date, 17.97 inches had fallen, which was 12.76 inches below normal. The drought began in May and continued into September. WARRICK COUNTY --- NEWBURGH [37.95, -87.42] 08/02/12 20:45 CST 0 Heavy Rain 08/02/12 22:00 CST 0 Source: Trained Spotter A trained spotter measured 1.5 inches of rain in 30 minutes. A foot of water was reported over a parking lot. VANDERBURGH COUNTY --- (EVV)DRESS ARPT EVAN [38.03, -87.53], EVANSVILLE [37.98, -87.55] 08/02/12 21:00 CST 0 Heavy Rain 08/02/12 22:00 CST 0 Source: ASOS The automated observing system at the Evansville airport measured 1.96 inches of rain in an hour. Strong thunderstorms produced very heavy rain that caused local flooding. The storms were organized into a mesoscale convective system (MCS) that tracked slowly southeast across southwest Indiana. The storms were fueled by a southwest wind flow of very warm and humid air that averaged around 20 knots a few thousand feet above ground level. Precipitable water values near 2.3 inches supported torrential rainfall rates. The complex of storms formed along a warm front that extended from southern Missouri across southern Illinois. VANDERBURGH COUNTY --- EVANSVILLE [37.98, -87.55] 0 08/16/12 18:05 CST Heavy Rain 08/16/12 18:05 CST 0 Source: Trained Spotter Street flooding was reported on the east side of Evansville at Interstate 164 and Indiana Highway 66. SPENCER COUNTY --- ROCKPORT [37.88, -87.05] 08/16/12 18:08 CST 3K Thunderstorm Wind (MG 51 kt) 08/16/12 18:08 CST 0 Source: Trained Spotter

Numerous tree limbs and branches were blown down. Many gusts were clocked around 58 mph.

A line of strong to severe thunderstorms produced heavy rain and an isolated report of damaging wind. The line of storms originated along a cold front moving southeastward across Illinois and Missouri. Mid-level winds around 30 knots were sufficient to maintain organization of the convective system.

### **KENTUCKY**, Southwest

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCRACKEN, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

08/01/12 00:00 CST 0 Drought

08/31/12 23:59 CST 0

The drought which began in May reached its most extreme stage by early August. Exceptional drought conditions persisted across far western Kentucky, west of a line from Henderson to Kentucky Lake. Extreme drought conditions were observed across the remainder of western Kentucky, including the Pennyrile region and the Owensboro/Henderson areas. Soil moisture deficits remained very high. Anywhere from 70 to 100 percent of the region's topsoil and subsoil moisture was reported as short or very short. The most severe soil moisture deficits were west of Kentucky Lake. Many crops were heavily damaged, and numerous counties were declared natural disaster areas. Corn crops were a partial or complete loss. Soybeans were faring somewhat better. The percentage of pastures rated as poor or very poor held steady from July. Some small trees and shrubs were killed. Ponds across the region were dry or drying quickly. A water shortage watch was issued by the State of Kentucky for Mclean and Crittenden Counties. The drinking water supply for some residents of those counties was low enough to warrant conservation measures. Across the western part of Kentucky, there were sporadic reports of domestic wells that stopped pumping. Even with the isolated rainfall from thunderstorms, fire danger remained high. Bans on outdoor burning were in place for numerous counties. Streamflows were running normal to below normal. At Paducah, 2.75 inches of rain fell in August, which was within one percent of normal. For the year to date, 16.05 inches had fallen, which

Page 2 of 6 Printed on: 10/21/2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
vas 16.26 inches below normal. The drou	ght began in May and continued	into September.		
HENDERSON COUNTY 0.7 N HENDERS	SON [37.84, -87.58], 1.3 NNE OHIC	ORIVER ORDINANC	E [37.82, -87.61],	1.1 SSE HENDERSON [37.82, -87.57], 1.2 E
	08/02/12 21:55 CST		0	Flash Flood (due to Heavy Rain)
	08/02/12 22:30 CST		0	Source: Trained Spotter
Many city streets had two to three feet of w	ater over them.			
MUHLENBERG COUNTY CENTRAL CIT	ΓΥ [37.30, -87.13]			
	08/02/12 23:30 CST		0	Heavy Rain
	08/03/12 00:10 CST		0	Source: Trained Spotter
Several roadways and main routes through	out the city had about six inches o	f water over them.		
Strong thunderstorms produced very hea system (MCS) that tracked slowly souther warm and humid air that averaged around supported torrential rainfall rates. The co southern Illinois.	ast across northwest Kentucky. T d 20 knots a few thousand feet ab	The storms were fu ove ground level. I	eled by a southwo Precipitable water	est wind flow of very r values near 2.3 inches
MCCRACKEN COUNTY 1.1 NE SHADY	GROVE [36.99, -88.51]			
	08/05/12 15:32 CST		5K	Lightning
	08/05/12 15:32 CST		0	Source: Newspaper
· · · · · · · · · · · · · · · · · · ·	<del>-</del>	e. The storm occurr	red along a weak	cold front that extended
from the Lower Great Lakes region to the	<del>-</del>	e. The storm occurr	red along a weak	cold front that extended  Wildfire
from the Lower Great Lakes region to the	08/11/12 13:00 CST 08/11/12 22:00 CST		0 0	Wildfire
from the Lower Great Lakes region to the (KY-Z011) LYON  A large brush fire scorched about 250 acrend of the recreation area, sending heavy and Livingston Counties, along with state highway providing access to the recreation	08/11/12 13:00 CST 08/11/12 22:00 CST  res in the Land Between The Lake a smoke across the community of a and federal fire agencies, battled on area. Heavy smoke forced som	es National Recreat Grand Rivers. Abo d the blaze. A few r ne people out of ca	0 0 stion Area. The fire out a half dozen fi oads were closed	Wildfire e occurred on the northern ire departments from Lyon d, including the main none were closed.  Thunderstorm Wind (EG 56 kt)
from the Lower Great Lakes region to the (KY-Z011) LYON  A large brush fire scorched about 250 acrend of the recreation area, sending heavy and Livingston Counties, along with state highway providing access to the recreation	08/11/12 13:00 CST 08/11/12 22:00 CST  res in the Land Between The Lake a smoke across the community of and federal fire agencies, battleton area. Heavy smoke forced som	es National Recreat Grand Rivers. Abo d the blaze. A few r ne people out of ca	0 0 cion Area. The fire out a half dozen fi oads were closed mpgrounds, but r	Wildfire e occurred on the northern ire departments from Lyon d, including the main none were closed.
(KY-Z011) LYON  A large brush fire scorched about 250 accepted of the recreation area, sending heavy and Livingston Counties, along with state highway providing access to the recreation BALLARD COUNTY 2.5 N BARLOW [37]	08/11/12 13:00 CST 08/11/12 22:00 CST  res in the Land Between The Lake of sand federal fire agencies, battled on area. Heavy smoke forced son 08/16/12 18:10 CST 08/16/12 18:10 CST 08/16/12 18:10 CST	es National Recreat Grand Rivers. Abo d the blaze. A few r ne people out of ca -89.03]	0 0 ction Area. The fire out a half dozen fi oads were closed mpgrounds, but r	Wildfire  e occurred on the northern fire departments from Lyon d, including the main none were closed.  Thunderstorm Wind (EG 56 kt) Source: Emergency Manager
(KY-Z011) LYON  A large brush fire scorched about 250 accend of the recreation area, sending heavy and Livingston Counties, along with state highway providing access to the recreation.  BALLARD COUNTY 2.5 N BARLOW [37]	08/11/12 13:00 CST 08/11/12 22:00 CST  res in the Land Between The Lake of sand federal fire agencies, battled on area. Heavy smoke forced son 08/16/12 18:10 CST 08/16/12 18:10 CST wer lines were blown down. The da	es National Recreat Grand Rivers. Abo d the blaze. A few r ne people out of ca -89.03]	0 0 sion Area. The fire out a half dozen fi oads were closed mpgrounds, but r 10K 0	Wildfire  e occurred on the northern fire departments from Lyon d, including the main none were closed.  Thunderstorm Wind (EG 56 kt) Source: Emergency Manager y 1105 between Barlow and Oscar.
(KY-Z011) LYON  A large brush fire scorched about 250 accend of the recreation area, sending heavy and Livingston Counties, along with state highway providing access to the recreation.  BALLARD COUNTY 2.5 N BARLOW [37]	2.09, -89.05], 2.5 S OSCAR [37.09, 08/16/12 18:10 CST 08/16/12 18:10 CST 08/16/12 18:27 CST	es National Recreat Grand Rivers. Abo d the blaze. A few r ne people out of ca -89.03]	0 0 sion Area. The fire out a half dozen fi oads were closed mpgrounds, but r 10K 0	Wildfire  e occurred on the northern fire departments from Lyon d, including the main none were closed.  Thunderstorm Wind (EG 56 kt) Source: Emergency Manager y 1105 between Barlow and Oscar.  Thunderstorm Wind (MG 51 kt)
from the Lower Great Lakes region to the  (KY-Z011) LYON  A large brush fire scorched about 250 accend of the recreation area, sending heavy and Livingston Counties, along with state highway providing access to the recreation  BALLARD COUNTY 2.5 N BARLOW [37]  Several small trees were across roads. Power the service of the process of the country across roads. Power the service of the servi	2.09, -89.05], 2.5 S OSCAR [37.09, 08/16/12 18:10 CST 08/16/12 18:27 CST 08/16/12 18:27 CST 08/16/12 18:27 CST 08/16/12 18:35 CST 08/16/12 18:35 CST	es National Recreat Grand Rivers. Abo d the blaze. A few r ne people out of ca -89.03] Image was mostly o 08, -88.63]	0 0 sion Area. The fire out a half dozen fi oads were closed mpgrounds, but r 10K 0 on or near Highway 20K 0	Wildfire  e occurred on the northern fire departments from Lyon d, including the main none were closed.  Thunderstorm Wind (EG 56 kt) Source: Emergency Manager y 1105 between Barlow and Oscar.  Thunderstorm Wind (MG 51 kt) Source: ASOS
from the Lower Great Lakes region to the (KY-Z011) LYON  A large brush fire scorched about 250 accend of the recreation area, sending heavy and Livingston Counties, along with state highway providing access to the recreation access to the recreat	2.09, -89.05], 2.5 S OSCAR [37.09, 08/16/12 18:10 CST 08/16/12 18:27 CST 08/16/12 18:27 CST 08/16/12 18:27 CST 08/16/12 18:35 CST	es National Recreat Grand Rivers. Abo the blaze. A few r ne people out of ca -89.03] Image was mostly o 08, -88.63] west of Paducah. Naucah.	0 0 cion Area. The fire out a half dozen fi oads were closed mpgrounds, but r  10K 0 on or near Highway  20K 0	Wildfire  e occurred on the northern fire departments from Lyon d, including the main none were closed.  Thunderstorm Wind (EG 56 kt) Source: Emergency Manager y 1105 between Barlow and Oscar.  Thunderstorm Wind (MG 51 kt) Source: ASOS
from the Lower Great Lakes region to the (KY-Z011) LYON  A large brush fire scorched about 250 accend of the recreation area, sending heavy and Livingston Counties, along with state highway providing access to the recreation access to the recreat	2.09, -89.05], 2.5 S OSCAR [37.09, 08/16/12 18:10 CST 08/16/12 18:27 CST 08/16/12 18:27 CST 08/16/12 18:27 CST 08/16/12 18:35 CST	es National Recreat Grand Rivers. Abo the blaze. A few r ne people out of ca -89.03] Image was mostly o 08, -88.63] west of Paducah. Naucah.	0 0 cion Area. The fire out a half dozen fi oads were closed mpgrounds, but r  10K 0 on or near Highway  20K 0	Wildfire  e occurred on the northern fire departments from Lyon d, including the main none were closed.  Thunderstorm Wind (EG 56 kt) Source: Emergency Manager y 1105 between Barlow and Oscar.  Thunderstorm Wind (MG 51 kt) Source: ASOS
from the Lower Great Lakes region to the  (KY-Z011) LYON  A large brush fire scorched about 250 accend of the recreation area, sending heavy and Livingston Counties, along with state highway providing access to the recreation  BALLARD COUNTY 2.5 N BARLOW [37]  Several small trees were across roads. Power than the country WEST PADUCA  A wind gust to 59 mph was measured at Baddown about a mile north of the airport. A tree	2.09, -89.05], 2.5 S OSCAR [37.09, 08/16/12 18:10 CST 08/16/12 18:10 CST 08/16/12 18:27 CST 08/16/12 18:27 CST 08/16/12 18:27 CST 08/16/12 18:35 C	es National Recreat Grand Rivers. Abo the blaze. A few r ne people out of ca -89.03] Image was mostly o 08, -88.63] west of Paducah. Naucah.	0 0 cion Area. The fire out a half dozen fi oads were closed mpgrounds, but r  10K 0 on or near Highway  20K 0 umerous tree limb	Wildfire  e occurred on the northern fire departments from Lyon d, including the main none were closed.  Thunderstorm Wind (EG 56 kt) Source: Emergency Manager y 1105 between Barlow and Oscar.  Thunderstorm Wind (MG 51 kt) Source: ASOS s and a few small trees were blown
A thunderstorm produced a lightning strifrom the Lower Great Lakes region to the (KY-Z011) LYON  A large brush fire scorched about 250 accend of the recreation area, sending heavy and Livingston Counties, along with state highway providing access to the recreation BALLARD COUNTY 2.5 N BARLOW [37]  Several small trees were across roads. Power across roads are several small trees were across roads.	2.09, -89.05], 2.5 S OSCAR [37.09, 08/16/12 18:10 CST 08/16/12 18:27 CST 08/16/12 18:25 CST 08/16/12 18:35 CST 08/16/12 18:55 CST 08/16/12 19:10 CST	es National Recreat Grand Rivers. Abd the blaze. A few r ne people out of ca -89.03] mage was mostly o 08, -88.63] west of Paducah. No	0 0 0 sion Area. The fire out a half dozen fi oads were closed mpgrounds, but r  10K 0 on or near Highway  20K 0 umerous tree limb	Wildfire  e occurred on the northern ire departments from Lyon d, including the main none were closed.  Thunderstorm Wind (EG 56 kt) Source: Emergency Manager y 1105 between Barlow and Oscar.  Thunderstorm Wind (MG 51 kt) Source: ASOS s and a few small trees were blown  Thunderstorm Wind (EG 56 kt) Source: State Official
from the Lower Great Lakes region to the (KY-Z011) LYON  A large brush fire scorched about 250 accend of the recreation area, sending heavy and Livingston Counties, along with state highway providing access to the recreation access to the recreat	08/11/12 13:00 CST 08/11/12 22:00 CST  res in the Land Between The Lake of smoke across the community of the and federal fire agencies, battled on area. Heavy smoke forced son 08/16/12 18:10 CST 08/16/12 18:10 CST 08/16/12 18:27 CST 08/16/12 18:35 CST 08/16/12 18:35 CST 08/16/12 18:55 CST 08/16/12 18:55 CST 08/16/12 19:10 CST	es National Recreat Grand Rivers. Abd the blaze. A few r ne people out of ca -89.03] mage was mostly o 08, -88.63] west of Paducah. No	0 0 0 sion Area. The fire out a half dozen fi oads were closed mpgrounds, but r  10K 0 on or near Highway  20K 0 umerous tree limb	Wildfire  e occurred on the northern ire departments from Lyon d, including the main none were closed.  Thunderstorm Wind (EG 56 kt) Source: Emergency Manager y 1105 between Barlow and Oscar.  Thunderstorm Wind (MG 51 kt) Source: ASOS s and a few small trees were blown  Thunderstorm Wind (EG 56 kt) Source: State Official
A large brush fire scorched about 250 accepted of the recreation area, sending heavy and Livingston Counties, along with state highway providing access to the recreation a	08/11/12 13:00 CST 08/11/12 22:00 CST  res in the Land Between The Lake of smoke across the community of the and federal fire agencies, battled on area. Heavy smoke forced son 08/16/12 18:10 CST 08/16/12 18:10 CST 08/16/12 18:27 CST 08/16/12 18:35 CST 08/16/12 18:35 CST 08/16/12 18:55 CST 08/16/12 18:55 CST 08/16/12 19:10 CST	es National Recreat Grand Rivers. Abd the blaze. A few r ne people out of ca -89.03] mage was mostly o 08, -88.63] west of Paducah. No	0 0 0 sion Area. The fire out a half dozen fi oads were closed mpgrounds, but r  10K 0 on or near Highway  20K 0 umerous tree limb	Wildfire  e occurred on the northern ire departments from Lyon d, including the main none were closed.  Thunderstorm Wind (EG 56 kt) Source: Emergency Manager y 1105 between Barlow and Oscar.  Thunderstorm Wind (MG 51 kt) Source: ASOS s and a few small trees were blown  Thunderstorm Wind (EG 56 kt) Source: State Official

Page 3 of 6 Printed on: 10/21/2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
In Eddyville, a trained spotter heard branch of Eddyville, county road crews were dispa		-		near 60 mph. In the Kuttawa area west
CALLOWAY COUNTY MURRAY [36.62	., -88.32]			
	08/16/12 19:30 CST		0	Hail (0.75 in)
	08/16/12 19:30 CST		0	Source: Emergency Manager
Dime-size hail occurred on the south side of	of the city.			
FRIGG COUNTY 2.0 S CADIZ [36.84, -8	37.82], 4.0 NW CADIZ [36.91, -87.87]			
	08/16/12 19:35 CST		15K	Thunderstorm Wind (EG 52 kt)
	08/16/12 19:45 CST		0	Source: Trained Spotter
A tree was blown down on a car off State F bower line. Several other trees were blown	· ·	was trapped. Or	n Highway 139 sou	uth of Cadiz, a tree was blown onto a
TRIGG COUNTY 2.5 E MONTGOMERY	[36.88, -87.68]			
	08/16/12 19:45 CST		0	Thunderstorm Wind (MG 50 kt)
	08/16/12 19:45 CST		0	Source: Trained Spotter
A trained spotter near the Christian County	/ line measured a wind gust to 58 mph	1.		
CHRISTIAN COUNTY 1.8 WSW JULIEN	N [36.82, -87.66]			
	08/16/12 19:48 CST		5K	Thunderstorm Wind (EG 56 kt)
	08/16/12 19:48 CST		0	Source: Emergency Manager
A tractor-trailer rig was overturned on Inter	rstate 24 at mile marker 72.			
CHRISTIAN COUNTY HOPKINSVILLE	[36.85, -87.48], 2.0 S HOPKINSVILLE	[36.82, -87.48]		
	08/16/12 19:53 CST		0	Thunderstorm Wind (MG 56 kt)
	08/16/12 19:55 CST		0	Source: Trained Spotter
A trained spotter measured a wind gust to Hopkinsville.	65 mph about two miles south of Hopk	kinsville. Another	spotter measured	a gust to 60 mph on the south side of
RIGG COUNTY ROARING SPG [36.72	2, -87.70]			
	08/16/12 19:53 CST		5K	Thunderstorm Wind (EG 50 kt)
	08/16/12 19:53 CST		0	Source: Department of Highways
Several trees were blown down on state ro	pads.			
CHRISTIAN COUNTY 3.0 NE OAK GRO	DVE [36.70, -87.39]			
	08/16/12 20:05 CST		5K	Thunderstorm Wind (MG 56 kt)
	08/16/12 20:05 CST		0	Source: Trained Spotter
a couple of trees were blown down. Both to	rees landed across roads, causing traf	ffic problems. On	e of the trees was	20 feet tall.
A line of strong to severe thunderstorms damage was east of Kentucky Lake. Stro ahead of the line, contributed to surging southeastward across Illinois and Missorsystem.	ong surface pressure falls ahead of the line segments and bow echoes. The	ne line of storms line of storms o	s, combined with voriginated along a	very unstable air out cold front moving

## MISSOURI, Southeast

(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

08/01/12 00:00 CST 0

08/31/12 23:59 CST 0

Drought

The drought which began in May reached its most extreme stage by early August. Through the month of August, all of southeast

Page 4 of 6 Printed on: 10/21/2012

Deaths &

Property &

**Event Type and Details** 

Date/Time

Location

	Inju	ries Crop Dmg		
Missouri was in extreme to exceptional drought. The exceptional drought conditions were along and south of a line from Doniphan to Jackson. The remainder of southeast Missouri was in extreme drought conditions. Soil moisture deficits remained very high.  Throughout August, 80 to 100 percent of the region's topsoil and subsoil moisture was reported as short or very short. Many crops were heavily damaged, and numerous counties were declared natural disaster areas. Corn crops were a partial or complete loss.  Soybeans were faring somewhat better. The percentage of pastures rated as poor or very poor held steady from July. Some small trees and shrubs were killed. Ponds across the region were dry or drying quickly. Even with the isolated rainfall from thunderstorms,				
fire danger remained high. Bans on outdoor	= :			
running normal to below normal. At the Cape Rainfall for the year-to-date was 14.27 inches		= -	-	
September.	, which was 10.00 menes below horman	. The arought began in	may and continued into	
PERRY COUNTY BIEHLE [37.60, -89.85]				
	08/02/12 10:25 CST	10K	Thunderstorm Wind (EG 56 kt)	
	08/02/12 10:25 CST	0	Source: Trained Spotter	
A section of roof was blown off a large machine	e shed.			
STODDARD COUNTY 4.0 SW DEXTER [36.	76, -90.00]			
	08/03/12 01:00 CST	0	Hail (1.00 in)	
	08/03/12 01:00 CST	0	Source: Trained Spotter	
A couple of isolated severe storms occurred	along a weak warm front that extended	from southern Missour	i across southern Illinois	
	along a weak warm nont that extended	Southern Missour	. ac. 055 Southern IIIIIOIS.	
BOLLINGER COUNTY 6.0 W ZALMA [37.15	5, -90.19], GIPSY [37.17, -90.18]			
	08/03/12 16:12 CST	0	Hail (1.75 in)	
	08/03/12 16:15 CST	0	Source: Trained Spotter	
Hail from half-dollar to golf-ball size was report	ed several miles west of Zalma			
a hot and very unstable air mass during the I (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-	Z110) STODDARD, (MO-Z111) SCOTT, (	•		
	08/04/12 13:00 CST 08/04/12 18:00 CST	0 0	Heat	
	06/04/12 16:00 CS1	U		
A southerly wind flow ahead of a cold front of Sikeston to Poplar Bluff and Doniphan, high	<del>_</del>		_	
WAYNE COUNTY GREENVILLE [37.13, -90	•			
	08/16/12 15:04 CST	0	Hail (0.75 in)	
	08/16/12 15:04 CST	0	Source: Trained Spotter	
WAYNE COUNTY PATTERSON [37.18, -90.	57]			
	08/16/12 15:15 CST	0	Hail (0.88 in)	
	08/16/12 15:15 CST	0	Source: Public	
RIPLEY COUNTY DONIPHAN [36.62, -90.82				
	08/16/12 15:44 CST	0	Thunderstorm Wind (MG 59 kt)	
	08/16/12 15:44 CST	0	Source: Trained Spotter	
A wind gust to 68 mph was measured.				
RIPLEY COUNTY 4.0 NE DONIPHAN [36.66				
	08/16/12 15:53 CST	0	Hail (1.25 in)	
	08/16/12 15:53 CST	0	Source: Trained Spotter	
BUTLER COUNTY HENDRICKSON [36.90,	_		Heil (4.95 in)	
	08/16/12 16:04 CST 08/16/12 16:04 CST	0 0	Hail (1.25 in) Source: Trained Spotter	

Page 5 of 6 Printed on: 10/21/2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BUTLER COUNTY 7.0 NW POPLAR BLUFF [3	6.82, -90.49]			
	08/16/12 16:06 CST		0	Hail (0.75 in)
	08/16/12 16:06 CST		0	Source: Trained Spotter

Wind gusts were estimated near 50 mph.

Storms consolidated along a cold front as it moved southeast across Illinois and Missouri. A very warm and moist air mass ahead of the front resulted in more than adequate instability to sustain severe storms as the front settled southeastward. Rather weak mid-level winds were compensated for by strong instability.

Page 6 of 6 Printed on: 10/21/2012